BROOKLYN ARMY SUPPLY BASE, PIER 4
(U.S. Army Military Ocean Terminal, Pier 4)
58th-65th Street, 2nd Avenue
Brooklyn
Kings County
New York

HAER NY 24-BROK

HAER No. NY-202-D

## PHOTOGRAPHS WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN ENGINEERING RECORD
National Park Service
Northeast Region
Philadelphia Support Office
U.S. Custom House
200 Chestnut Street
Philadelphia, P.A. 19106

#### HISTORIC AMERICAN ENGINEERING RECORD

HAER NY 24-BROK, 530-

BROOKLYN ARMY SUPPLY BASE, PIER 4 (U.S. Army Military Ocean Terminal, Pier 4) HAER No. NY-202-D

Location:

Brooklyn Army Terminal Complex 58th - 65th Street, 2nd Avenue

Brooklyn

Kings County, New York

UTM: 18/582050/4500040

Quad: Jersey City, NJ - NY, 1:24,000

Date of Construction:

1918 - 1919/initial construction phase

Architect: Engineer: Contractor:

Cass Gilbert
Post and McCord
Turner Construction

Present Owner:

City of New York

New York City Economic Development Corporation

(EDC)

110 Williams Street New York, NY 10038

Present Use:

Vacant

Significance:

Pier Four was built during the original phase of construction of the Brooklyn Army Terminal (BAT), and was designed by Cass Gilbert. It was one of four piers at the terminal used by the U.S. Army to send troops and supplies to Europe on an emergency basis immediately after World War I and during World War II.

Project Information:

It is the present intention (1994) to rehabilitate Pier Four for use as a "Park-And-Sail Ferry Operation". The proposed ferry would provide passenger service from BAT Pier Four to Manhattan for bus and car commuters.

As part of EDC's efforts to restore and upgrade the terminal, Han-Padron Associates, Consulting Engineers, were engaged to investigate the condition of the piers.

According to these recent evaluations of the structure and sub-structure (1991; and follow-up reports conducted in 1992 and 1993), the deterioration of the pier has become so advanced that local collapses are imminent. Demolition is advised.

Judith Saltzman Li/Saltzman Architects, P.C. Preservation Consultants 375 West Broadway New York, NY 10012

#### Summary Description of Pier 4 and Setting:

The Brooklyn Army Terminal (BAT) is a former military installation containing 97 acres; its original construction dates to 1918-1919. Originally known as The United States Army Military Ocean Terminal and the former New York Port of Embarkation, it is listed on the National Register of Historic Places. BAT was vacated by the U.S. Government in 1975 and was acquired by the City of New York in 1981. Pier 4, along with sister piers 2 and 3, are part of BAT and extend west toward Manhattan. The base is comprised of two warehouses, the piers 2, 3 and 4 with covered sheds (Pier 1 was uncovered), an administration building, a boiler house, a machine shop with garages and a storage yard with numerous railroad tracks and trucking areas. <sup>1</sup>

The BAT complex was the largest of five Army Supply Bases constructed, along the east and gulf coasts, on an emergency basis at the end of World War I. According to the National Register Nomination, "The complex played a vital role in the mass movement of military goods and troops immediately after World War I and throughout World War II... During World War II, it was one of the main points of debarkation for troops and supplies."<sup>2</sup>

The complex is on a 97.21 acre site, and the size and boundaries of the present site are those of the original development site. This particular site was selected because it was in a commercial waterfront area of sufficient size; it was located immediately adjacent to a deep water channel and it was immediately available. An investigation of the underlying soil conditions revealed the fact that it was possible to obtain excellent foundations for the warehouses as well as the piers.<sup>3</sup> In addition, the site was strategically located between, and directly connected to, existing railroad yards for the Pennsylvania and Long Island Railroads and the Bush Terminal Industrial Complex.<sup>4</sup>

Eleven of the existing nineteen structures are listed as "contributing" on the National Register nomination for the "U.S. Army Military Ocean Terminal." Eight of these contributing structures, including Piers 2, 3, and 4, were part of the initial construction campaign in 1918-1919. The cost of the initial construction was approximately \$32,500,000. Construction was authorized by the Department of the Army to facilitate the movement of material, and the transport of troops, to Europe. The base served the Army in this capacity until decommissioned in 1973, then served various governmental uses until 1975. It was turned over to the City of New York in 1981.

All work on the base was under the direction of the Construction Division of the U.S. Army. Planning and design services were provided by Mr. Cass Gilbert, one of the greatest architects of that period. Recognizable works of Mr. Gilbert are the Woolworth Building and the U.S. Custom House, both located in New York City. Mr. Gilbert commented on the architectural simplicity of the BAT design:

"If it (the base) has in any respect been successful as a work of architecture (aside from its practical efficiency), it is because of its manifest simplicity. I have emphasized the importance of simplicity of outline and surface, and have decried the use of extraneous

<sup>&</sup>lt;sup>1</sup> "United States Army Supply Base," The Architectural Review (January 1920): 1.

National Register Nomination (July 1983): 2.

<sup>&</sup>lt;sup>3</sup> "United States Army Supply Base," *The American Architect* (November 26, 1919): 652.

<sup>4</sup> Ibid.

Nimmons, George C., "Modern Industrial Plants," The Architectural Record (date unknown): 277.

ornament, especially in industrial buildings, as out of character with the direct and practical purpose of such substrates."6

The BAT complex is one of the earliest examples of large-scale industrial design in a bold, modern language. The original buildings, the east facades of the two-story sheds on Piers 2, 3, and 4, and the connecting bridges from the second deck of the pier sheds to the adjacent warehouse structure, were all constructed of reinforced concrete. All of the structures conform to the overall stylistic plan used in development of the site. The construction techniques were innovative to that time period, in that they departed from the Beaux-Arts embellishments, and the use of more traditional materials such as brick. It was necessary to use reinforced concrete in lieu of structural steel, which was hard to acquire in large quantities at the time of construction (1918-1919).<sup>7</sup>

Aside from the Gilbert-designed reinforced concrete facade, which is located along the bulkhead wall at the inshore end of the piers, the construction of Piers 2, 3, and 4, is typical of piers built in New York Harbor early in the century. Pier 4's description and present condition is very similar to Piers 2 and 3. Pier 4, along with Piers 2 and 3, were each 150 feet wide and extended 1300 feet out into the harbor, from the shoreline bulkhead wall.<sup>8</sup>

Each of the three enclosed piers was comprised of three basic parts: timber piles (the substructure), a concrete deck, and a two-story shed. Pier 4 was supported on timber piles driven into the harbor bottom and timber framing, which formed the substructure and support for the pier deck and shed. The reinforced concrete pier deck slab was supported directly by the timber framing, and in turn, on the timber piles. Each pier contained approximately 7,450 timber piles. The two-story shed was 140 feet wide, 1240 feet long, and its greatest height was 60 feet. The pier shed elevations which faced Warehouse 'A' were concrete, which reflected the composition of the warehouse. The two story shed was steel frame construction with corrugated metal siding and metal cargo doors along the length. The columns supporting the pier shed framing were founded on unreinforced concrete footings. The column foundations and the pier deck substructure were independent of each other. The original drawings by Cass Gilbert documented the materials used. According to a side elevation, cement plaster finish with metal paneling was applied. There were vertical sliding doors for handling cargo. Metal windows utilized clear wire glass. Each floor was paved with asphalt block. Railroad tracks ran down the length of the pier. A distinctive feature of BATs piers was the connecting bridge that linked the second floor of each pier to Warehouse 'A'.

While the BAT complex was constructed on an emergency basis due to size and capacity of the facility, the design considered the long term effects of such a project on handling commerce at the Port of New York. Project planning also included the ultimate conversion of the warehouses into buildings for manufacture. The layout of the complex provided an effective plan for receiving, storing, and transferring cargo from the rail yards, the warehouses and the piers. An outstanding feature of the base was the simplicity of the transportation facilities. The planning of the storage yards, streets, ramps, railroads, connecting bridges, and tunnels made it a practical achievement in freight handling.

Gilbert, Cass, "Industrial Architecture in Concrete," *The Architectural Forum* (Sept. 1923): 85.

<sup>7</sup> The American Architect: 655.

<sup>8</sup> Han Padron Assoc., Inspection & Structural Evaluation of Pier Nos. 1, 3, and 4, (April 1991): 2.

Inspection & Structural Evaluation of Pier Nos. 1, 3, and 4, (April 1991): 2.

Gilbert, Cass, Architectural Drawings no. P101A and P1001, 1918.

<sup>11</sup> The American Architect: 654.

Operations on the piers were unique in that direct access was provided, from upland storage areas and warehouses, to both the main pier deck and to the second floor of the pier shed.

Cargo could be loaded and/or offloaded onto the lower or upper deck level of the pier sheds. Ships gear was used to handle cargo to and from the lower deck. The cargo was landed on the apron (approximately 5 feet wide) provided by the difference between the width of the pier deck and the shed. Inside the shed, cargo was moved by battery operated mobile equipment (forklifts, dollies, etc.) for loading onto trucks and rail cars. The BAT complex had, on its own, extensive track and marshalling areas for rail cars with eventual access to main line service. On the piers rail access was provided over the full length of the shed. At the second deck level there was direct access to the warehouses via a bridge connecting to the third level of the warehouse. Cargo was handled on the pier to and from the warehouse using battery operated equipment. Cargo was transferred, between the vessel and the pier, using a combination of ships gear and burton frame system constructed along the face of the shed roof. The use of chain falls was required to handle the cargo to or from the ship directly to the second deck. Cargo could also be moved between the lower and upper pier decks using one of six cargo elevators located on each pier. Up to 20 vessels could berth simultaneously at the piers 13.

During World War II, it is surprising to note that over 3,000,000 troops and 38,000,000 tons of supplies passed through this port during its principal use. <sup>14</sup> It was a remarkable feat at the time for the U.S. government to produce such an elaborate complex in the hopes for its future use, and for the future economic needs of the Brooklyn population.

Several minor alterations occurred at the pier over the years. An estimate of repairs was conducted by the Army in 1955; (the form is attached in the Supplemental Material Section). Inspections and condition studies were conducted for the City to insure proper maintenance. Technology developed; one elevator was replaced by a passenger escalator at Pier 4.15 With its close proximity to the water, weathering damaged areas along the piers. Most of the original metal cargo doors were removed after years of deterioration and replaced with metal roll-up doors. The fenders surrounding each pier were reconstructed. Areas at the concrete floor decking needed replacement.

The original buildings of the Brooklyn Army Terminal, including Pier 4, will be remembered as an early success in modern design, due to the confluence of ideas regarding emergency construction, practical efficiency, bold use of modern materials, simplicity in appearance, and efficient coordination between architect, engineer, and contractor.

Han Padron Assoc., Inspection & Structural Evaluation of Pier No. 4, (October 1992): Attachment B: 1.

<sup>13</sup> The Architectural Review (January 1920): 1.

National Register-Nomination Form: 6.

URS Company, Suitability for Future Use & Assessment of Present Condition, (June 25, 1982): 6.

#### **SOURCES OF INFORMATION/BIBLIOGRAPHY:**

#### **HISTORIC VIEWS:**

New York Historical Society Collection. "Unidentified Warehouses: Army Supply Base (Cass Gilbert and Hugh Ferriss renderings). New York City, New York: Clipping File Collection.

#### PUBLISHED AND UNPUBLISHED SOURCES:

Gilbert, Cass. "Industrial Architecture in Concrete." *The Architectural Forum*, vol. 39, no. 3, (September 1923): 83-86.

Han-Padron Associates, Consulting Engineers. Inspection and Structural Evaluation of Pier No. 4: Brooklyn Army Terminal, Contract No. 9000.282, Assignment No. 4, April 1991.

Han-Padron Associates, Consulting Engineers. Inspection and Structural Evaluation of Pier No. 4: Brooklyn Army Terminal, Contract No. 9000.282, Assignment No. 4 (revised), October 1992.

National Register of Historic Places - Nomination Form, under "United States Army Military Ocean Terminal." (July 1983): 1-7.

Nimmons, George C. "Modern Industrial Plants." The Architectural Record, date not known: 262-284.

"United States Army Supply Base." *The American Architect*, vol. 116, number 2292; (November 26, 1919): 651-660.

"United States Army Supply Base." The Architectural Review, vol. 10, number 1, (January 1920): 1-4.

#### INFORMATION NOT YET INVESTIGATED:

"Freight Handling at the Brooklyn Army Base." Engineering News-Record 83 (September 18, 1919): 555-60.

#### REPORTS ON FILE AT NYC ECONOMIC DEVELOPMENT CORPORATION:

Jerome Haims Realty Inc.: Rental Appraisers and Consultants. "Appraisal Report of Rental Value of Pier Four - Brooklyn Army Terminal." March 1982.

Tippetts-Abbett-McCarthy-Stratton: Architects and Engineers. "Brooklyn Army Terminal: Physical Requirements for Pier Reuse." December 1979.

URS Company Inc. "Brooklyn Army Terminal: Piers No. 3 and No. 4: Suitability for Future Use and Assessment of Present Condition." June 1982.

#### FURTHER INFORMATION FOUND AT THE NEW YORK HISTORICAL SOCIETY:

#### In Cass Gilbert List of Holdings:

U.S. Army Supply Base Brooklyn, New York 1920

- 1 volume letterbooks
- 13 packages blueprints
- Presentation Drawings: Stack 11, 11.86-11.113, 11.325-11.329

<u>LOCATION OF LEGAL DESCRIPTION:</u> Hall of Records, 31 Chambers Street, New York City.

#### SUPPLEMENTAL MATERIAL:

New York Historical Society Collection. "Unidentified Warehouses: Army Supply Base" (Cass Gilbert and Hugh Ferriss renderings, 1918). New York City, New York: Clipping File Collection.

Brooklyn Historical Society Collection. Brooklyn Photographs: under "Army - Supply Bases" (Clippings from *Architecture and Building*, no date) Brooklyn New York: Visual Collection.

"United States Army Supply Base." The Architectural Review, vol. 10, number 1, (January 1920): pages 2, 4, plates I and II.

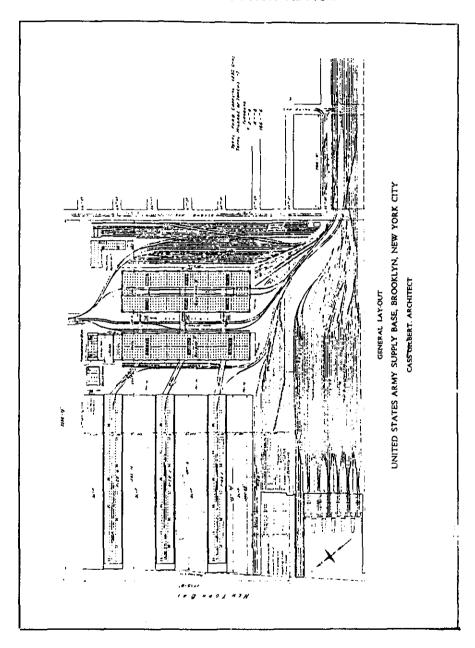
Letters: regarding Pier Shed Roofing, from Cass Gilbert/Gunvald Aus Company, (June 1918): 1-2.

Letter: to the Constructing Quartermaster, from Construction Division, (June 1918): 1-2.

DA AGO Form 5-25; "Individual Project Estimate - Repairs and Utilities" for New York Port of Embarkation - Brooklyn Army Base; Request no. 23-55, Detail Acct. no 3532.2; February 7, 1955: 1-3.

BROOKLYN ARMY SUPPLY BASE, PIER 4 (U.S. Army Military Ocean Terminal, Pier 4) HAER NO. NY-202-D Page 8

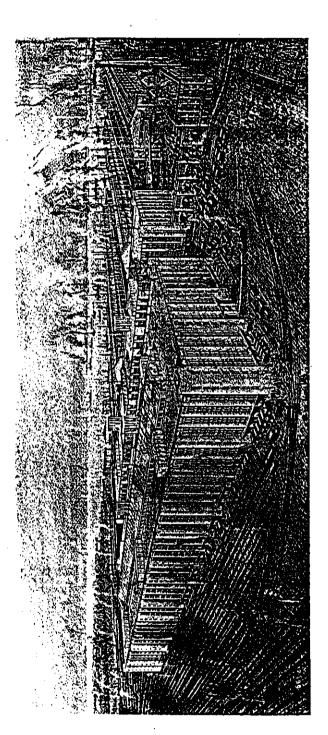
#### THE ARCHITECTURAL REVIEW



"General Layout: United States Army Supply Base, Brooklyn, New York City - Cass Gilbert, Architect." The Architectural Review, vol. 10, number 1 (January 1920): page 2. COLLECTIONS

or

THE NEW-YORK HISTORICAL
SOCIETY



East view of overall complex. Warehouse 'B' in foreground, with Warehouse 'A' and piers in background.

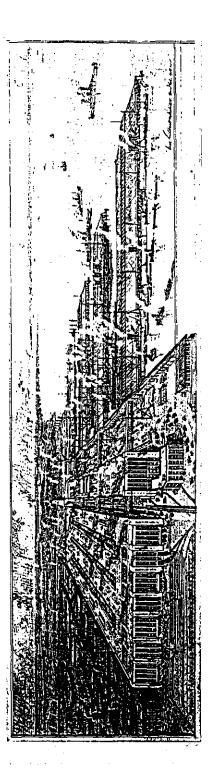
Design by Cass Gilbert, rendering by Hugh Ferriss, 1918.

New York Historical Society Collection.

COLLECTIONS

OF

THE NEW-YORK HISTORICAL
SOCIETY



Northeast view of proposed design for terminal and piers.

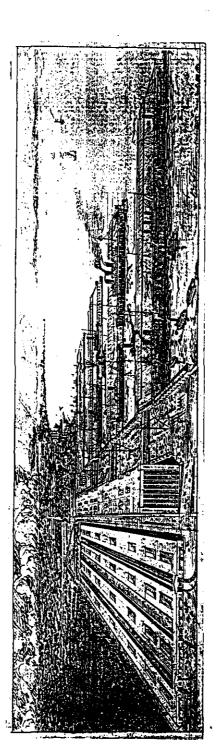
Design by Cass Gilbert, rendering by Hugh Ferriss, February 4, 1918.

New York Historical Society Collection.

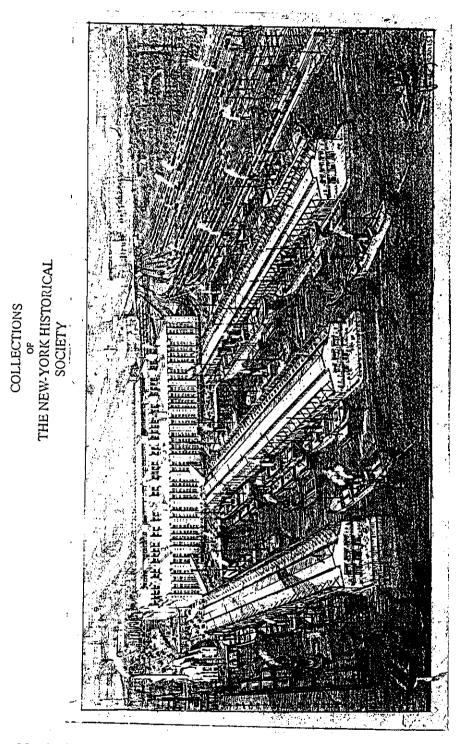
COLLECTIONS

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SOCIETY



Northeast view of proposed design for terminal and piers.
Design by Cass Gilbert, February, 1918.
New York Historical Society Collection.

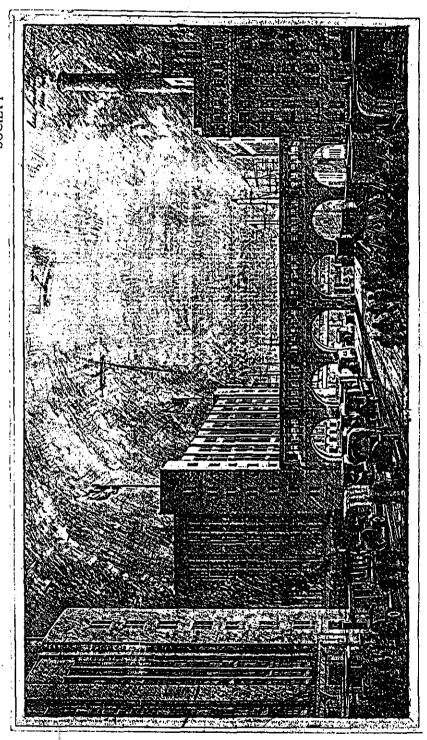


North view, with piers 4, 3, and 2 in foreground, and terminal in background.

Rendering by Hugh Ferriss, date unknown.

New York Historical Society Collection.

COLLECTIONS
or
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SOCIETY



Southeast view toward the waterfront area, with Warehouse 'A' connecting with Administration Building.

Design by Cass Gilbert, rendering by Hugh Ferriss, 1918.

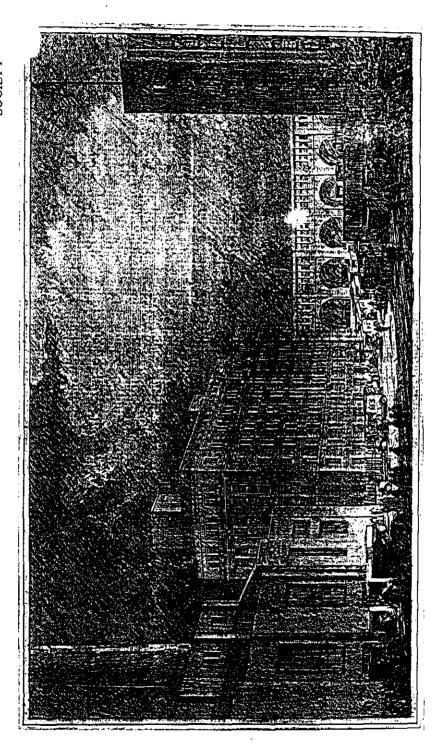
New York Historical Society Collection.

COLLECTIONS

OF

THE NEW-YORK HISTORICAL

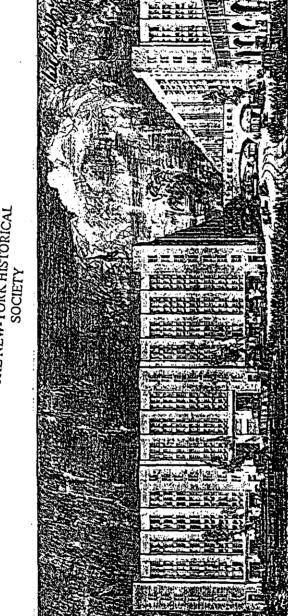
SOCIETY



North view looking from water to complex. Boiler House, Administration Building, and bridge connecting to Warehouse 'A'.

Design by Cass Gilbert, rendering by Hugh Ferriss, 1918.

New York Historical Society Collection.

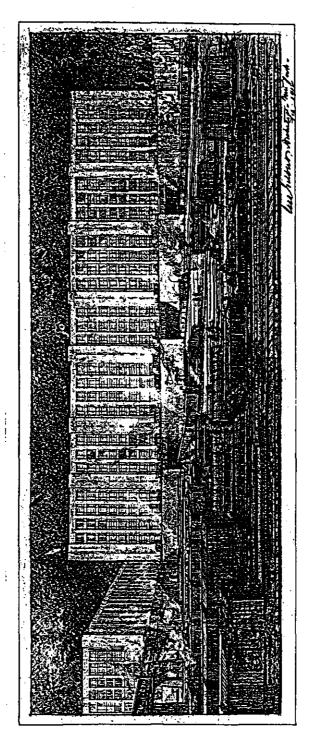


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OF
THE NEW-YORK HISTORICAL
SOCIETY

Northeast view of Warehouse 'B' and 'A', showing trucks and rail system loading and unloading cargo.

Design by Cass Gilbert, rendering by Hugh Ferriss, 1918.

New York Historical Society Collection.

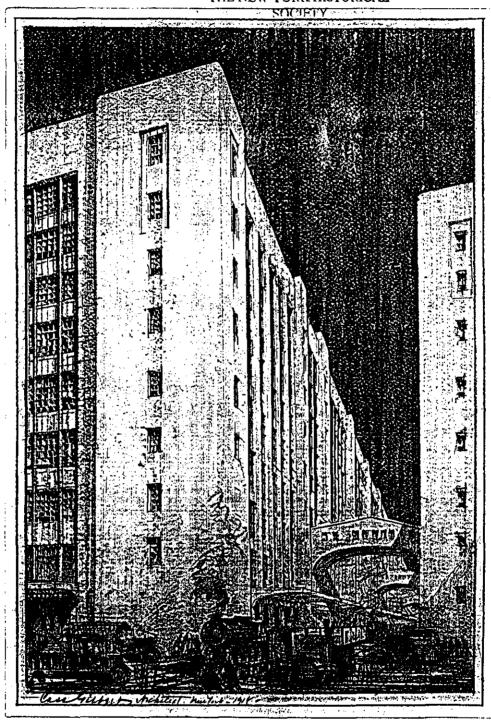


COLLECTIONS of THE NEW-YORK HISTORICAL SOCIETY

Southeast view of Warehouse 'B', showing in foreground loading and unloading from piers using rail system.

Design by Cass Gilbert, rendering by Hugh Ferriss, February, 1918. New York Historical Society Collection.

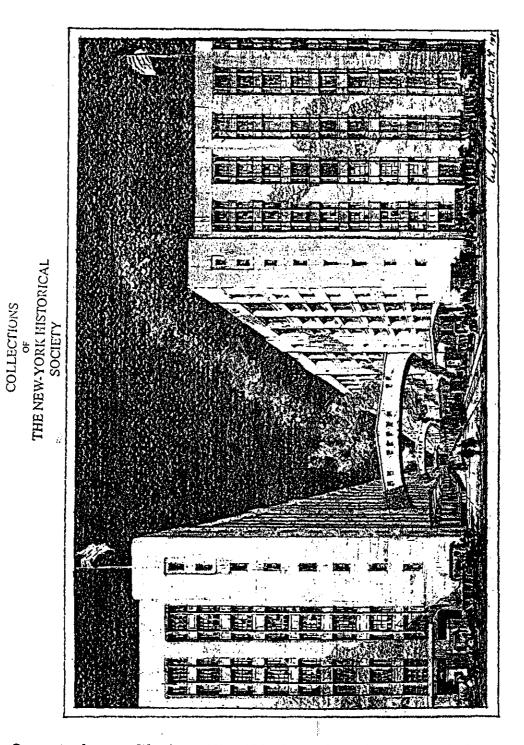
# COLLECTIONS OF THE NEW-YORK HISTORICAL



Connection between Warehouse 'A' and Warehouse 'B'. Train and trucks in foreground.

Design by Cass Gilbert, rendering by Hugh Ferriss, 1918.

New York Historical Society Collection.

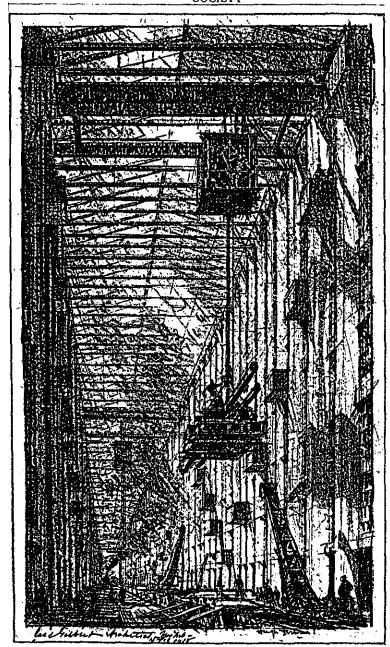


Connection between Warehouse 'A' and Warehouse 'B'. Train and trucks in foreground.

Design by Cass Gilbert, rendering by Hugh Ferriss, 1918.

New York Historical Society Collection.

# COLLECTIONS of THE NEW-YORK HISTORICAL SOCIETY



Atrium view of Warehouse 'B', showing transport of cargo.

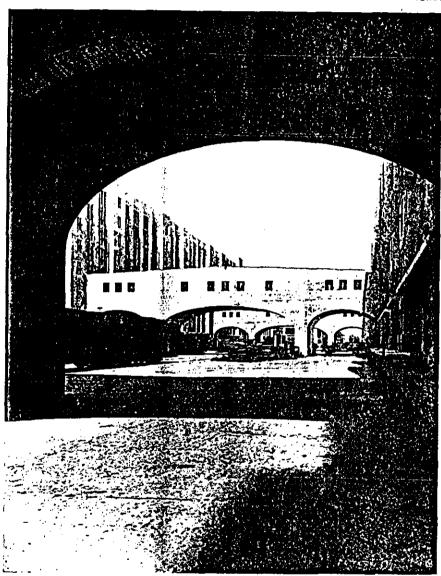
Design by Cass Gilbert, rendering by Hugh Ferriss, February 15, 1918.

New York Historical Society Collection.

·THE · ARCHITECTURAL · REVIEW

VOL X, No. 1

PLATE I



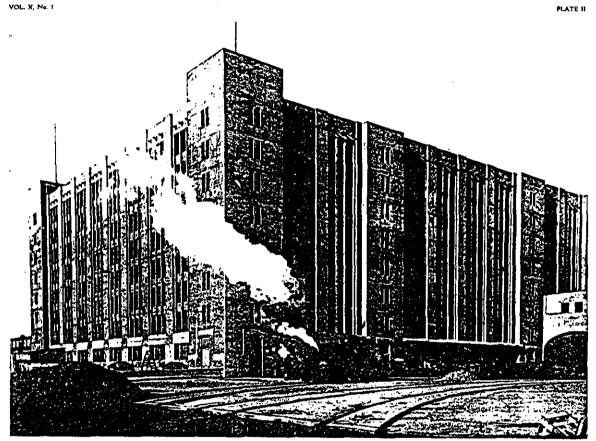
UNITED STATES ARMY SUPPLY BASE, BROOKLYN, NEW YORK CITY
CASS GILBERT, ARCHITECT

Bridges connecting Warehouse 'B' and Warehouse 'A'.

"United States Army Supply Base,
Brooklyn, New York City - Cass Gilbert, Architect."

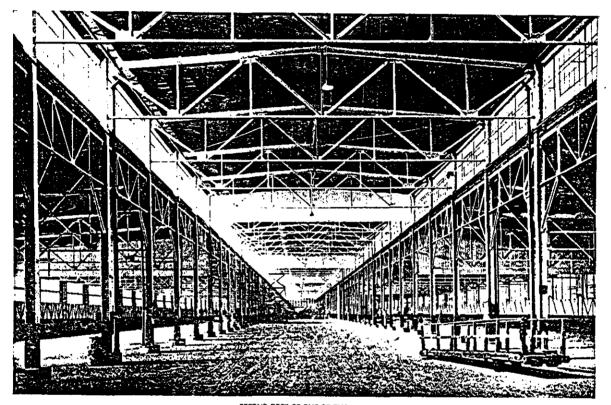
The Architectural Review, vol. 10, number 1 (January 1920): plate I.

·THE·ARCHITECTURAL·REVIEW



UNITED STATES ARMY SUPPLY BASE, BROOKLYN, NEW YORK CITY
CASS GILBERT, ARCHITECT

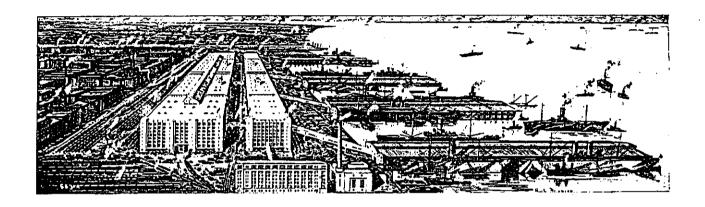
Warehouse 'A', Southeast view.
"United States Army Supply Base,
Brooklyn, New York City - Cass Gilbert, Architect."
The Architectural Review, vol. 10, number 1 (January 1920): plate II.

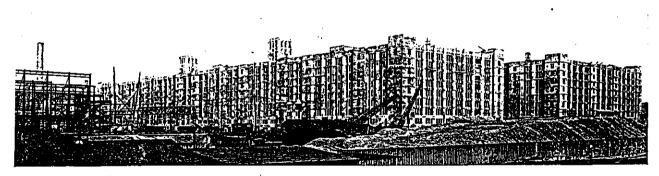


UNITED STATES ARMY SUPPLY BASE, BROOKLYN, NEW YORK CITY

CASS GILBERT, ARCHITECT

"Second Deck of One of the Piers: United States Army Supply Base, Brooklyn, New York City - Cass Gilbert, Architect." The Architectural Review, vol. 10, number 1 (January 1920): page 4.





Agentractive and Buttoling, Plate 74. Built by Tunner Constitution Co.; plumbing contractor—C. J. Stasse; ventilators—Meuser Bion. Co., Inc.; Cliecaman & Etilott paints used on buildings and piers; concrete piles—Raymond Concrete Pile.

WATSON COLLECTION

UNITED STATES ARMY SUPPLY BASE, UPPER WIEW SHOWING PIERS, SOUTH BROOKLYN, NEW YORK.

Case Gilbert, Architect.

LONG ISLAND HISTORICAL SOCIETY

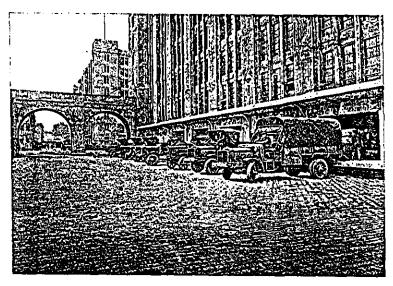
top half:

"United States Army Supply Base Upper View Showing Piers, South Brooklyn, New York-Cass Gilbert, Architect." Rendering by Hugh Ferriss.

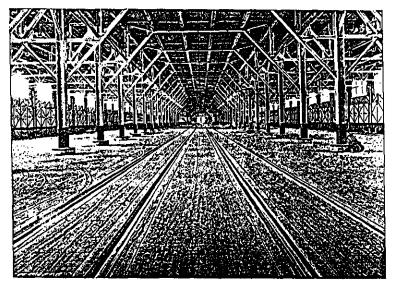
Architecture and Building, plate 76, no date.

Watson Collection/Brooklyn Historical Society Collection.

bottom half:
Northwest view of terminal.
Architecture and Building, plate 76.
Watson Collection/Brooklyn Historical Society Collection.



TOP OF GARAGE AND LUADING PLATFORMS, NORTH END OF OFFLDING A, UNITED STATES ARMY SCIENCE WASHINGTON DRIVER OF SERVICION



PIER NO. 4, LOWER DECK, UNITED STATES ARMY SUPPLY BASE, SOUTH BROOKLYN, NEW YORK.

Case Gilbert, Architect.

Anchivecture and Burlding, Plate 77,
Built by Turner Construction Co.; asphalt blocks—Hastings Pavement Co.; sheet
metal work and stylights—Herremann & Grace Co.; Navage Espansion Bolts used;
sprinkler system—Meckwood Ngrinkler Co.

"Top of Garage and Loading Platforms, North end of Building 'A', United States Army Supply Base, South Brooklyn, New York."

Architecture and Building, plate 77, no date. Watson Collection/Brooklyn Historical Society Collection.

"Pier No. 4, Lower Deck, United States Army Supply Base, South Brooklyn, New York-Cass Gilbert, Architect."

Architecture and Building, plate 77, no date. Watson Collection/Brooklyn Historical Society Collection.

#### \_ARMY\_BASE

June 14, 1918.

L' I concur in this recommendation but under the written instructions of the Construction Division the design should be made of wood purlins. I have I wish also to verbally protected against this.

PONBULTATIONS EXAMINATION: REPORTS STRUCTURAL STRUL REINFORCED CONCRETS CASS CILLUT ARCHITECT RECENTED ·비비 구 - 1918 ANS'D 11/9 1918.

fmm for their consideration an alternative for pre cast concrete purlins and roof slabs.

### COLLECTIONS

**Q'SNA** 8161 - T MUU ರತ್ನ ಚಣರಣಚ TOstFIHORA CASS GILLERFE I

THE NEW YORK HISTORICAL SOCIETY With reference to the Pier Shade of the Army Supply

> Base you told us that you have been advised of the decis= ion to make the roof construction wood purlins and sheathing. We urgently recommend that this matter be reconsidered, if possible, in favor of pre-cast reinforced concrete purlins and roof slabs as shown by sketch herewith.

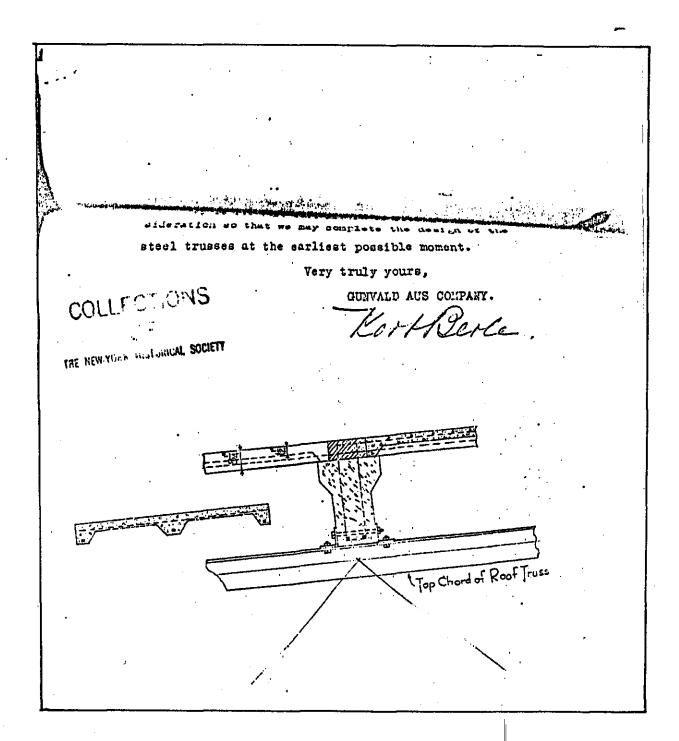
Our argument for the adoption of such construction in lieu of wood is not only that it will at least reterd a possible fire and practically insure against the opread of fire from one pier to another or to ships alongside, but also that the placing of the pre-cast concrete roof will require less time and labor.

As regards the cost, we have inquired of the "Pre-Cast Concrete Company" and they have advised us that their price for the purlins and slabs in place complete, ready for the gravel roof covering, would probably not exceed (.45) forty-five cents per square foot which seems reasonable.

We strongly recommend that such roof construction be

Letters: regarding Pier Shed Roofing, written by Cass Gilbert; June 14, 1918 (top half), to Cass Gilbert, written by Gunvald Aus Company; June 7, 1918 (bottom half), page 1 of 2.

New York Historical Society Collection.



Letters: regarding Pier Shed Roofing, to Cass Gilbert/written by Gunvald Aus Company,
June 7, 1918: page 2 of 2.
New York Historical Society Collection.

	COLLECTIONS	1. 2° 16/14/16	June 28, 1918.
<u>LELORAL</u> CR.E	THE NEW YORK HISTORICAL SOCIETY		A CONTROLLAR
TO:	The Constructing Quer	termoeter.	ANS'D

FROM: Construction Division, Construction Branch.

SUBJECT: Army Supply Bose, Brooklyn, N.Y.

1. At c meeting in the office of Lt.Colenel Bush on Thursday, June 27th, 1918, the following items were discussed and decisions reached as follows:

2. Referring to lotter from Mr. Coss Gilbert to Major Crooker deted June 21st, with reference to ruilroad tracks in relation to the piore. It was decided that the 300 ft. radius should be maintained and that columns of pier shed were to be moved to permit proper clearance where curve extended on to the piers.

3. Trook layout of the East and South of the project to be etudied end report to be made at the meeting on Thursday next, in the office of Lt. Colonel Bush.

4. Drewings to be revised to show pier cheds extended to the center line of the first double bent of piles beck from end of piers.

5. Arrangement of pier No. 1 to be ce follows: To be 60 feet in width, and to be previded with 2 reilroad trocke, 18 feet centor to center, the trocks on the weter eide of the pier to be 12 feet from center of track to the edge of the pier, and the pier to be designed for locametive locate.

Pier to be paved with blooks, of make to be determined later, end paving to be graded so that it will be flush at the top of the rails so as to permit trucking over the entire width.

6. Property lying between Third and Fourth Ave., ond along 65th Street, to be condemned at once for nocessary track facilities, Colonel Shelby's office has been natified and necessary action has begun.

Land Caret Control of the Control of

7. E.

Memorandum: to the Constructing Quartermaster, from Construction Division, June 28,1918, page 1 of 3.

New York Historical Society Collection.

. X

- 7. All paying to be in accordance with the original program, i.e. concrete unless data to be furnished by Mr. Gilbert with reference to costs and upkeep shows more favorable reference to paying blocks as a substitute for concrete. The space between building A and bulkhead line to be payed with brick or some other smooth surfaced paying material on a concrete base. Material recommended for paying to be submitted to the Construction Division for approval.
- 6. There will be no orance used on piers Number 1, other than locomotive cranes, and there will be no clottic power required on this pier other than for necessary electric lighting. There will be no etationary oranes provided in epace between buildings A and bulkhead line.
- 9. Space for barracks, guards and stavedore regiments, will not be provided on the piers. Drawings are now being porfeated to provide enitable accommodations for these men on land adjacent to the project. Mr. Gilbart is to locate suitable quarters for first aid cases in the buildings, cases are to be sent to aity or other public hospitals or to infirmaries in guard or stevedore regiment acmps as may be determined by the Surgeon General who now has this matter under consideration.
- 10. a- Power plugs for tiering machines are not to be provided on the piers.
- b- Scale pits in buildings A and B to be located East of the peach blevator bank. Pite only to be installed at this time and common flaced over, pending the installation of the scales. Mr. (1) Gilbert to work out program for placing other scales and submit layout to the Construction Division,
  - o- Scheme showing now location of boilor room and Administrative building as submitted by Mr. Gilbert, was approved. Recessary drawings to be propared at once.
  - d- Study for dining rooms, toilet rooms, etc., for Administrative forces to be propared by Mr. Gilbert and submitted for approval.
  - e-Contracts for elevators to be submitted to the Conatruction Division for examination by the Legal Department.
- f- Both sleotric and steam locomotives to be provided for switching purposes, electric locomotive to be of storage battery type and used for handling cars inside the buildings.
  - g- The Signal Corpe desires wireless towers and room for operator as a part of the project, data for the same to be obtained from the Electric Engineering Section of Land Division, of Signal Corps, who will also furnish information with reference to telephone facilities for this project.

COLLECTIONS

Memorandum: to the Constructing Quartermaster, from Construction Division, June 28, 1918, page 2 of 3.

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h- Plumbing and heating plane are being checked and will be available ehertly.

i- Arrangements of office facilities for Administrative force to be taken up with Colonel Welle, and determined as econ as possible.

j- Mr. North to confor with Mr. Morrie on the completion of layout for the open eterage tracks, layout to be submitted to Mr. Gilbort for his inspection and then referred to Lt. Colonel Bush for presentation to Mr. Felton.

## COLLECTIONS

OF

THE NEW YORK WISTORICH SOOREN

R. C. Marshall, Jr.

Colonol Q. M. Corps. H. A., In Charge of Construction Division.

BY: (Sig.) Clinton H. Fisk.

Major, Q.M.Corps, N.A.

CHF/GTC/B

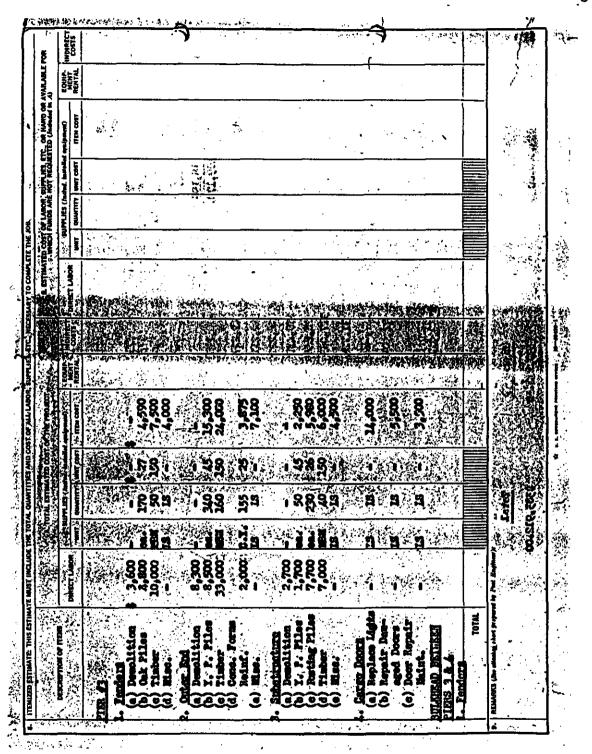
Memorandum: to the Constructing Quartermaster, from Construction Division, June 28, 1918, page 3 of 3.

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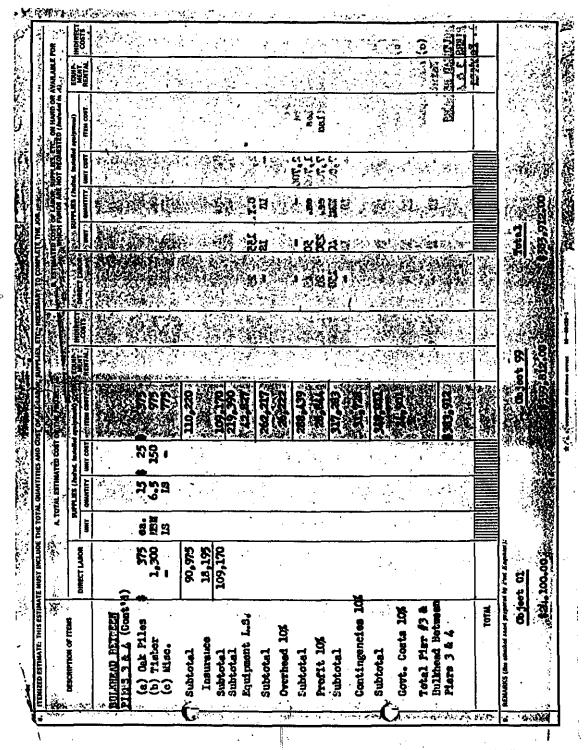
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